

No. 780,947.

PATENTED JAN. 24, 1905.

C. GRABE.
PLOW OR CULTIVATOR CLAMP.
APPLICATION FILED JUNE 15, 1904.

Fig. 1.

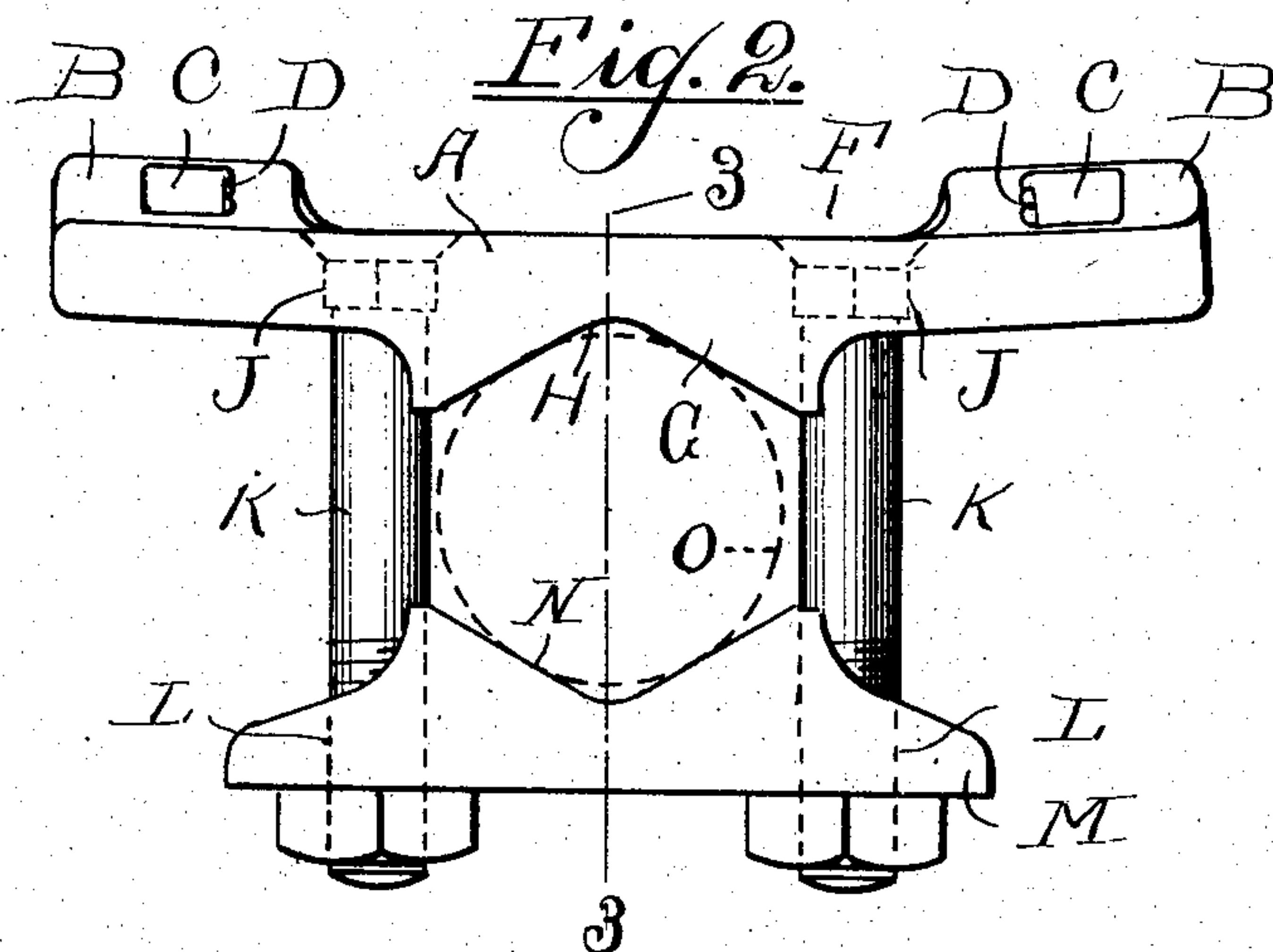
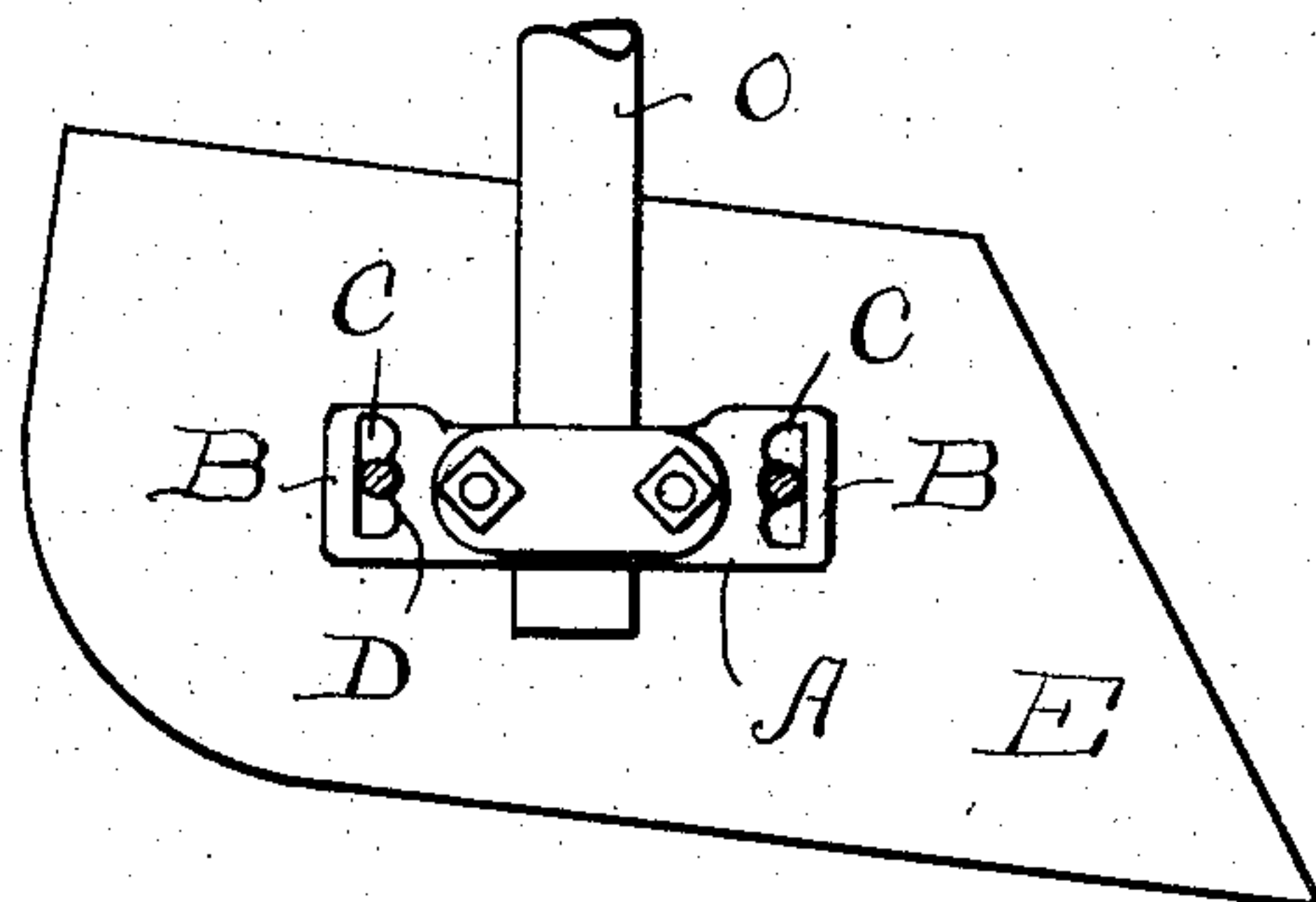
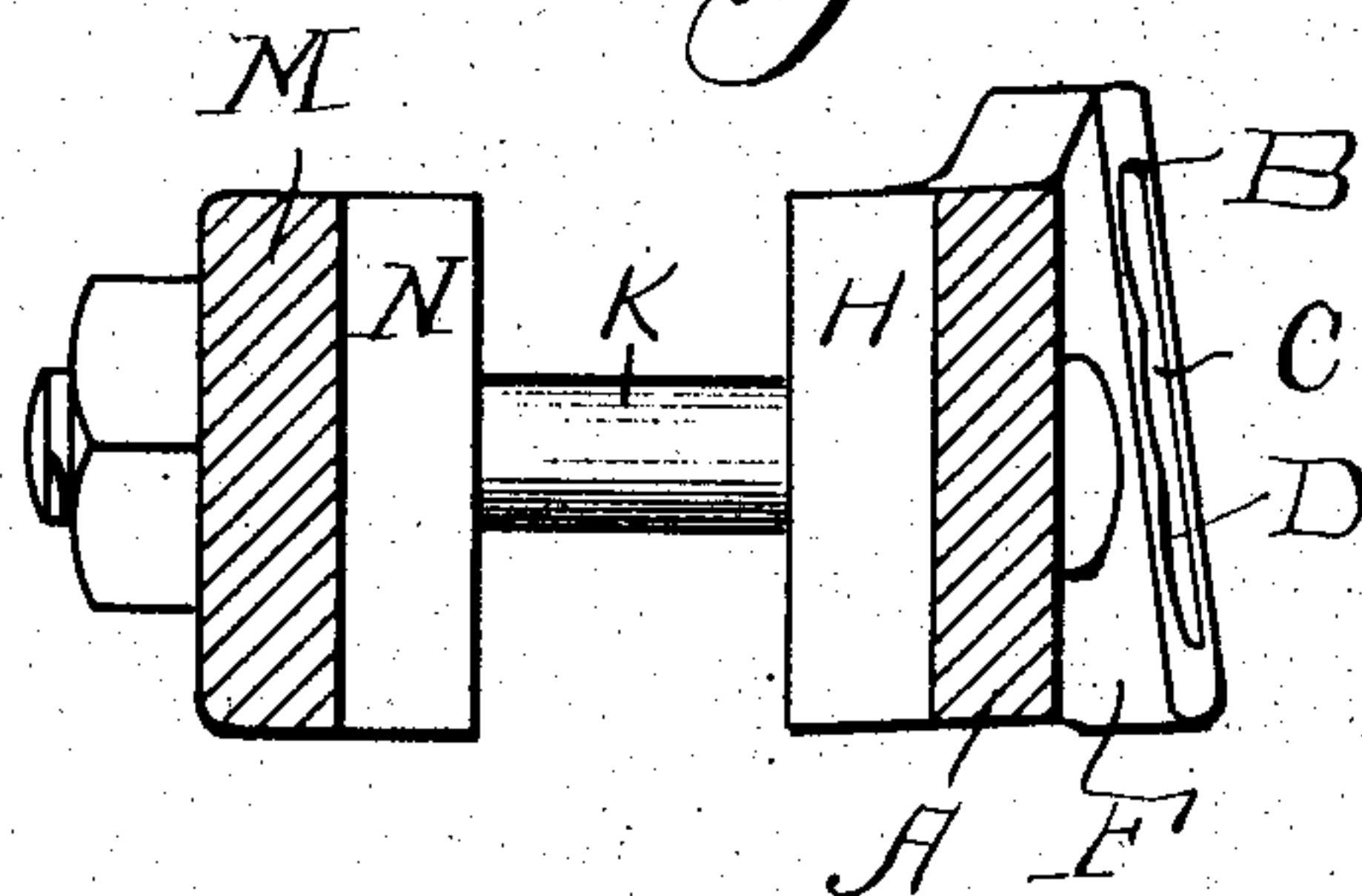


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

CONRAD GRABE, OF SOLLITT, ILLINOIS.

PLOW OR CULTIVATOR CLAMP.

SPECIFICATION forming part of Letters Patent No. 780,947, dated January 24, 1905.

Application filed June 15, 1904. Serial No. 212,595.

To all whom it may concern:

Be it known that I, CONRAD GRABE, a citizen of the United States, residing at Sollitt, in the county of Kankakee and State of Illinois, have invented certain new and useful Improvements in Plow or Cultivator Clamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a novel construction in a clamp particularly adapted to secure the blades of cultivators and the like to the frame and permit adjustment of the position thereof, the object being to provide a simple and efficient device of this character; and it consists in the features of construction and combinations of parts hereinafter fully described and claimed.

In the accompanying drawings, illustrating my invention, Figure 1 is a view in elevation, showing a plow or cultivator blade secured to a part of the standard by means of a clamp constructed in accordance with my invention. Fig. 2 is a top plan view, partly in perspective, of my said clamp. Fig. 3 is a vertical transverse section of same on the line 3 3 of Fig. 2.

My said clamp consists of a base-plate A, provided at its ends with flanges B, each provided with a lateral slot C, the inner wall of which is serrated, as at D, to receive the shanks of the bolts securing same to the blade E to hold said blade and plate securely in relative positions. The said flanges B are offset at an angle to the middle or body portion of said plate, so that the recess F, formed between said flanges, is of greater depth at one side than at its other side, said recess being adapted to receive the convex face of the blade E. The said middle or body portion of said plate A is provided between its ends with a raised projection G, in the outer end of which is a V-shaped recess H, the walls of which are disposed at an angle of about one hundred and twenty degrees to each other, so as to make said recess relatively shallow. Between the said raised projection G and the flanges B said plate is provided with openings J, which

are square to receive the square portions of the shanks adjacent the heads of bolts K, the free ends of which pass through openings L in a plate M, which is provided on one side between its ends with a similar V-shaped groove N, in which and said recess H of the plate A the cylindrical standard O of the carriage of the cultivator is received and clamped. The said arms O vary greatly in diameter, and it is therefore essential that said clamp should be capable of receiving the smallest as well as the largest of said arms. By means of the shallow V-shaped recesses I secure great latitude of adjustment and insure equally good contact with all sizes of said arms.

By offsetting the flanges B at a very slight angle to the body of the plate A, I also secure a better adjustment of the position of the blades relatively to the standard, as I am enabled to obtain most advantageous angles, and thereby increase the efficiency of the cultivator.

I claim as my invention—

1. A plow-clamp comprising two relatively movable members provided in their opposing faces with recesses adapted to receive the standard to be clamped, one of said members comprising a plate provided at its ends with flanges offset at an angle to the middle portion of said plate, the said flange being provided with lateral slots having their inner walls serrated to receive the shanks of bolts securing said plate to the blade to hold same rigidly in position relatively thereto, and said plate being provided adjacent said flanges with square openings to receive the square portions of the shanks of bolts connecting said members.

2. A plow-clamp comprising two relatively adjustable members provided in their opposing faces with shallow V-shaped recesses adapted to receive the arm of the cultivator-standard to be clamped therebetween, one of said members comprising a plate provided at its ends with flanges offset at an angle to the middle portion of said plate, the said flanges being provided with lateral slots having their inner walls serrated to receive the shanks of bolts securing said plate to the blade to hold

same rigidly in position relatively thereto, and said plate being provided adjacent said flanges with square openings to receive the square portions of the shanks of bolts connecting said members.

3. A plow-clamp comprising in combination two relatively adjustable plates provided in their opposing faces with V-shaped recesses, one of said plates being provided with slotted flanges offset at an angle to the surface of the recess in the face thereof, and the said plates being provided with oppositely-

located bolt-holes, the bolt-holes in one plate being squared, and bolts having squared shanks, said bolts passing through said oppositely-located holes and the squared shanks fitting in the square holes of one of said plates.

In testimony whereof I have signed my name in presence of two subscribing witnesses.

CONRAD GRABE.

Witnesses:

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F. SCHLOTFELD.